WELCOME TO FAMILY WEEKEND!

MIT's Oldest and Largest Newspaper

tech.mit.edu



WEATHER, p. 2

SAT: 63°F | 50°F Partly cloudy

SUN: 57°F | 47°F Partly cloudy

Friday, October 24, 2014

Portions of SidPac to close for repairs

Graduate dorm will not accept new residents next school year

By Tushar Kamath

Volume 134, Number 49

Sidney-Pacific, MIT's largest singles graduate dormitory, will undergo renovations starting this coming summer to replace the main heating, ventilation, and air conditioning system. As a result, sections of the building will be temporarily closed for renewal, displacing 370 residents from their rooms to other ends of the dormitory, off-campus, or elsewhere in the graduate dormitory system.

As a result, no new graduate students will be permitted to move into the dormitory until the renovations are complete.

The announcement came in an email to Sidney-Pacific (Sid-Pac) residents this past Tuesday. The next day, Dean of Residential Life and Dining Henry Humphreys and Director of Renovations and Renewal Michael Kearns called a town hall meeting at SidPac where students voiced their frustration.

SidPac residents attending the meeting asked questions ranging from whether seniorityhousing points would translate to other dorms, to issues of how the renovations will affect utilities.

In the town hall meeting and subsequent interview with The Tech, Humphreys indicated that a few options were available for those displaced graduate students. These residents may choose to stay in SidPac, but must move into a two-bedroom quad suite on another side of the dormitory, necessitating students sharing the same bedroom.

To some at the town hall, this was the most unsavory option. "When you come back and suddenly you have another person in your room and that is not going to work... and it's your room,

Sidney-Pacific, Page 12



AeroAstro celebrates centennial



Buzz Aldrin responds to a question as a part of a panel of Apollo astronauts during the Department of Aeronautics and Astronautic's Centennial Symposium. The panel was held at Kresge Auditorium on Oct. 22.

Judi Segall starts as ombudsperson

Brings years of conflict resolution expertise to the position

By Amy Wang

On Sept. 2, Judi Segall was welcomed in as MIT's newest ombudsperson. In her new role, she will serve as a confidential resource to the MIT community by helping visitors attempt to constructively and peacefully resolve conflicts.

Segall, with her years of experience in conflict management, hopes to assist members of the MIT community manage their problems in a way that supports what she described as MIT's culture of innovation and collaboration.

The Ombuds Office attempts to resolve conflicts without going through an adversarial system. According to Segall, by avoiding formal complaints, the Ombuds Office helps individuals work through problems so that they are not at legal odds with another person.

When distraught visitors come to

Segall, she said she often says, "In an interpersonal conflict, you own the problem, but you also own the solution." She tries to help her visitors see the variety of possible solutions and consider both the short-term and long-term consequences. Based on her past experiences, Segall claims that when her visitors realize they are in control, they give themselves the opportunities to make decisions from a more logical perspective.

Segall served as director of the Stony Brook Ombuds Office for 17 years. She also taught graduate student seminars on conflict management and leadership development.

She was president of the University and College Ombuds Association as well as the Ombuds Association before they merged to become the International Ombudsman Association (IOA). She served as the inaugural president of the IOA in 2006.

Segall said her strongest impres-

sion of MIT is the community's dedication to change the world. In her five weeks here, she said she has met people throughout the Institute in order to inform herself about the community's culture and operations. She says she has been "continuously impressed by the openness of continued learning on campus," and greatly appreciates "the harmonization of the arts within the MIT culture."

While Segall is not teaching for the 2014-2015 academic year, it remains a possibility in the near future.

MIT's Ombuds Office is located in 10-213. The Ombuds Office sees a large number of students over the year, including a significant number of graduate students, as well as postdoctoral scholars and faculty members.

According to the MIT Ombuds, they are able to direct individuals to more resources when necessary. The

Segall, Page 11

Sarkis named dean of School of Architecture and Planning

Hashim Sarkis, practicing architect and current Aga Khan Professor of Landscape Architecture and Urbanism in Muslim Societies at Harvard University's Graduate School of Design (GSD), was named the tenth dean of MIT's School of Architecture and Planning (SA+P). His appointment begins in January, formally succeeding Professor Adele Naude Santos.

Sarkis, a member of the Harvard faculty since 1998, has been director of the Aga Khan Program for Islamic Architecture at the GSD (housed jointly at Harvard and MIT), for the last 12 years. The program is one of the best for the study of architecture, urban issues, and visual culture in Islamic societies. Sarkis expressed that he is looking forward to working within MIT's framework of how to approach architecture.

"Educators of architects and planners worldwide are emulating the MIT research-based model, and it is a true honor to build on Adele's legacy and to guide this model forward," Sarkis told the MIT News Office. "MIT at large provides an ideal setting for such an undertaking, especially as it invests in the future of education and in initiatives like energy, environment, and innovation that are at the core of SA+P. It is especially invigorating to see the scientists and engineers reach out to the designers and to see how much they value their contribution to the One Community."

Sarkis comes to the Institute with an extensive portfolio of award-winning architectural projects from around the world with his firm, Hashim Sarkis Studios, and a PhD in architecture from Harvard

—Stan Gill

IN SHORT

Johnson Ice Rink is now open for the winter! The most recent skating schedule can always be found http://web.mit.edu/athletics/ www/skateschedule.pdf. Enjoy the first evening session of the season tonight from 7-11 p.m. Skate rentals are available during times the rink is open for \$5 for MIT students and \$7 for others. You must bring your own equipment to participate in recreational hockey.

Concert Choir's Community Sing is today at 5 p.m. in Lobby 10. Anyone is welcome to come sing along - music and snacks are provided!

MIT Wind Ensemble and Festival Jazz Ensemble's annual Family Weekend Concert is tonight at 8 p.m. in Kresge Auditorium featuring President L. Rafael Reif narrating Copland's Lincoln Portrait. The event is free and open to the public.

Voting for the Underclassmen Giving Campaign starts this Monday in Lobby 10. Stop by in person or online to donate and vote for one of the projects to win an expedition

Send news information and tips to news@tech.mit.edu.

INSTITUTE **DOUBLE TAKE**

Out on the Charles during the magic hour. PHOTO, p. 13

DON'T THINK TOO MUCH

Or you might psych yourself out of eating. FUN, p. 6

WELCOME TO FAMILY WEEKEND

Where you can see "world-class faculty" in action. FUN, p. 5

UNDOCUMENTED AT THE INSTITUTE

Two students speak about their experiences getting to and attending MIT.

CAMPUS LIFE, p. 10



A WIN FOR MEN'S SOCCER

Engineers beat Framingham State 2–1 SPORTS, p. 15

SECTIONS

vvorid & Nation	. 2
Opinion	.4
Fun Pages	.5
Campus Life	10
Sports	15

At least 500 militants killed in US-led strikes in Syria, observer group says

AMMAN, Jordan — Air and missile strikes in Syria by the United States and its allies during the past month have killed more than 500 extremist fighters as well as at least 32 civilians, a Syrian monitoring group said Thursday.

The tally compiled by the group, the Syrian Observatory for Human Rights, provides one of the first measures of the impact of the U.S.-led military campaign against the extremist group known as the Islamic State, which has seized territories in Syria and Iraq.

But the numbers also hint at ways in which the strikes have made life harder for civilians in some areas administered by the

In addition to imposing its harsh interpretation of Islam, often through public beheadings and other forms of execution, the Islamic State oversees the distribution of fuel and grain. The strikes have hurt its distribution abilities, leading to a rise in fuel prices across areas that have already been battered by more than 3 1/2 years of war, according to activists in Islamic State areas.

The new death toll suggests that strikes on the Islamic State by the U.S.-led coalition, which began Sept. 23, have hurt the group, killing at least 464 fighters across northern and eastern Syria, the Observatory said.

The strikes have also killed at least 57 members of the Nusra Front, al-Qaida's affiliate in Syria, which has clashed with the Islamic State while maintaining close ties with mainline rebel groups seeking to topple the government of President Bashar Assad.

The number of extremist fighters killed is likely much higher, the Observatory said, because the groups cover up some deaths.

—Ben Hubbard, The New York Times

North Korea says Kim ordered release of detained American

SEOUL, South Korea — North Korea said Wednesday that its leader, Kim Jong Un, had personally ordered the release of Jeffrey E. Fowle, an American, after considering requests from President Barack Ohama

Fowle, an Ohio municipal worker and one of three Americans detained in North Korea, had been held for nearly six months before a U.S. military plane picked him up Tuesday. He arrived Wednesday in Ohio, where he was reunited with his wife and three children, who rushed to greet his plane when he arrived at Wright-Patterson Air Force Base near Dayton.

Kim recently reappeared in state-run news media after a sixweek absence, ending widespread speculation about his health and his grip on power. With the statement Wednesday, North Korea appeared to be burnishing Kim's image at home as a leader capable of doing a favor for the U.S. president.

Analysts also said the sudden release of Fowle might have been a conciliatory gesture from Kim to bolster his government's efforts to engage Washington in a dialogue.

The report was the North's first public comment on the circumstances surrounding Fowle's release. Washington has not offered an explanation, except for thanking the Swedish government, which maintains an embassy in Pyongyang and has represented the interests of Americans held in the North. The United States and North Korea remain technically at war after the Korean War was halted in 1953 in a truce.

Fowle, 56, of Miamisburg, Ohio, was released while he was awaiting trial on charges of committing an anti-state crime. He entered North Korea in late April on a tourist visa and was arrested in May after leaving a Bible at a bar. North Korea considers any attempt to disseminate Christian messages by an outsider a crime aimed at undermining its political system.

The statement released by the family gave thanks to God "for his hand of protection over Jeff these past 6 months" and said that Fowle wanted people to know that the North Korean government had treated him well.

-Choe Sang-hun, The New York Times

UN urges China to allow free elections in Hong Kong

By Michael Forsythe

THE NEW YORK TIMES

HONG KONG — The U.N. Human Rights Committee urged China on Thursday to allow elections in Hong Kong without restrictions on who can run as a candidate. The move appeared likely to draw strong criticism from Beijing, where officials decided in August to set strict guidelines for the 2017 election of the city's next leader, prompting mass sit-in protests.

The 18-member panel in Geneva said Hong Kong needed to do more to ensure that its people have not only the right to vote but also the right to run for office.

"Hong Kong China should take all necessary measures to implement universal and equal suffrage in conformity with the covenant, as a matter of priority for all future elections," Cornelis Flinterman, a member of the rights panel from the Netherlands, said Thursday, referring to an international agreement on political rights.

The committee focused on the Aug. 31 decision by China's Communist Party-run legislature to adopt guidelines for the 2017 election that would effectively keep anyone not approved by Beijing from appearing on the ballot for chief executive, the city's top post.

Under the guidelines, candidates must get the approval of more than half the members of a 1,200-person nominating committee, which includes many of Hong Kong's pro-Beijing tycoons as well as representatives of other social groups friendly to the central government. The city, Asia's most important financial center, was transferred from British to Chinese rule in 1997, and its legal and administrative system is separate from that of the rest of China.

Yuval Shany, a member of the rights panel from Israel, said the nominating committee was "not fully representative of the Hong Kong population."

Democracy advocates warned Beijing for more than a year that the proposed restrictions would touch off large-scale protests in the heart of the city. After the guidelines were adopted anyway, ac-

tivists in the city, led by students, staged sit-ins in the main business district and two busy shopping areas, occupying vital avenues and blocking traffic.

Those sites are still occupied, more than three weeks later. Tens of thousands of Hong Kong residents have been drawn to the protests, and there have been frequent clashes with the police and with people opposed to the pro-democracy movement.

The U.N. panel said Hong Kong's performance in following the panel's recommendations was "not satisfactory" and gave the Hong Kong government two months to reply.

A poll released this week by the Chinese University of Hong Kong showed growth in support for the goals of the student-led protests. Among 802 people ages 15 and older surveyed in Hong Kong between Oct. 8 and Oct. 15, 38 percent said they supported the protests, compared with 31 percent in September; 35 percent were opposed in the new poll, compared with 46 percent in September.

Germany is sending a military training mission to northern Iraq

By Alison Smale

THE NEW YORK TIMES

BAKU, Azerbaijan — Germany is sending a mission to northern Iraq to examine whether its military, and possibly those of other European nations, can expand the training of Kurdish forces battling jihadists there, Foreign Minister Frank-Walter Steinmeier said Thursday.

Asked about reports in the German media that training by Germany's armed forces in Irbil, in northern Iraq, would soon expand, Steinmeier noted that his country's cabinet had approved both humanitarian aid and the delivery of military weapons, along with limited training on them, several weeks ago.

"We have an exploratory mission which is examining what and whether something could work" in Irbil in terms of expanded training, Steinmeier said at a news conference during a visit to Azerbaijan.

Germany has received what he called "signals" from European Union members that such training "could be interesting for them," and that they might join the effort.

Irbil is the main city in the Kurdish-controlled region of northern

Steinmeier's announcement was the latest sign that Germany is ready to play a more robust role on the international stage, particularly in the Middle East and in addressing events in Ukraine. Germany's relative proximity to Syria and Iraq, and its policies to date, have had a direct effect at home: Refugee facilities are overflowing, and there have been violent clashes between Kurds and the police in some German cities.

Azerbaijan shares a border with Iran, another focus of international diplomacy as the deadline nears for an agreement to limit Iran's enrichment of uranium - and to prevent that country from developing a nuclear weapon — after almost a decade of negotiations.

In July, international negotiators extended the deadline on the Iran talks by four months, with discussions expected to come to a head in November, after the midterm elections for the U.S. Congress.

Steinmeier embarked on his trip to the Caucasus on Tuesday fresh from a dinner and talks with Secretary of State John Kerry. The two men indicated that Iran had taken up a good chunk of their time, with discussions about how much uranium Iran could continue to enrich, how much enriched uranium it might hold and how to prevent it from building a nuclear weapon.

'There is no such thing as a deal," Steinmeier emphasized after the talks in Berlin on Tuesday. There has to be a well-negotiated and firm agreement that prevents Iran from acquiring a nuclear weapon, he

Clearing skies just in time for the weekend

By Costa Christopoulos

STAFF METEOROLOGIST

MIT students had to deal with more than just Psets and exams this week. A potent low pressure system formed just off the coast of New England, bringing gusty winds and heavy rain to the area. Since Monday, Boston has picked up over 3 inches of rain and winds have gusted to as high as 60 mph!

In the wake of this week's system, skies will clear and temperatures will return to normal by the weekend. Clouds will remain in place until late this evening. We

should see an afternoon high of 56°F (13°C) with winds out of the north. Winds this evening could still gust to as high as 25 mph.

Tomorrow, winds will pick up out of the west ahead of the next cold front. Highs should make it into the low 60s °F (16°C) and skies should remain partly cloudy. Ultimately, the front will fizzle out as it reaches the area tomorrow evening, so only a slight chance of showers exists. Wind gusts as high as 30 mph on Saturday and Sunday will keep things breezy, but overall the weekend is shaping up to be pleasant.

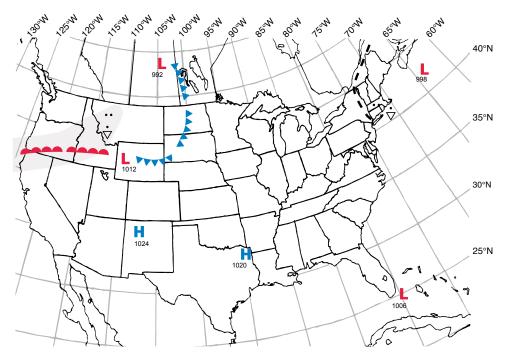
Extended Forecast

Today: Overcast with clearing in the evening. High of 56°F (13°C) with winds out of the north at 15 mph.

Tonight: Partly cloudy with a low around 45°F (7°C). Northwest winds at 10 mph.

Tomorrow: Mostly sunny with a high of 63°F (17°C). Winds from the west at 7 mph.

Sunday: Partly cloudy with a high in the upper 50s °F (10°C). Monday: Sunny with a high around 60 °F (16°C).



Situation for Noon Eastern Time, Friday, October 24, 2014

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols	
	Trough		Snow	Rain	=	Fog
High Pressure	Warm Front	Showers	*	ċ	ス	Thunderstorm
Low Pressure		Light	*	•	∞	Haze
e	Cold Front	Moderate	**	•••	Com	piled by MIT
§ Hurricane	Stationary Front	Heavy	**	:.		orology Staff I The Tech

Taliban gain strength in Afghanistan's north

By Azam Ahmed

THE NEW YORK TIMES

CHAHAR DARA, Afghanistan — The last time that Afghans in the northern province of Kunduz felt so threatened by the Taliban was in 2009, just before President Barack Obama deployed thousands of troops to push the insurgents back from the outskirts of the province's capital.

Now the Taliban are back, but the cavalry will not be coming.

With just two months left before the formal end of the 13-year international combat mission, Western officials insist that the Afghan security forces have managed to contain the Taliban's offensives on their own. But the insurgents' alarming gains in Kunduz in recent weeks present a different picture.

In an area that has not been a primary front against the Taliban for years, there are now two districts almost entirely under Taliban rule, local officials say. The Taliban are administering legal cases and schools, and even allowing international aid operations to work there, the officials say.

The new Afghan government

under President Ashraf Ghani Ahmadzai has acknowledged the depth of the crisis, telling local officials in a videoconference that Kunduz's situation was a priority on a par with major battle fronts in the Taliban-heavy south and east this year. Already, troop reinforcements have been sent from Mazar-i-Sharif, the main city in the north.

Taken together with new Defense Ministry statistics showing a huge rise in combat deaths for the Afghan army and police forces, the losses in Kunduz point out a deeper-than-expected concern about the ability of the security forces to hold territory without Western troops directly entering the fight.

Local residents and officials in three of the province's most challenged areas, Chahar Dara, Dasht-e Archi and Imam Sahib districts, describe a military and police force unable to mount effective operations. Rather than pushing back on the ground, Afghan forces have opted to shell areas near the capital under Taliban control. That has led to the deaths of more than a dozen civilians this summer, villagers claim.

"The Taliban could take the city any time they want to," said Hajji Aman, a businessman in Kunduz City, who has been highly critical of the government's response to the crisis. "They just don't want to bother with holding and managing it right now."

Kunduz province is a vital but chaotic crossroads in northern Afghanistan, and even when the Taliban have posed a lesser threat, criminal networks have kept it tumultuous.

But security there deteriorated significantly in 2008 and 2009, amid a heavy Taliban push as coalition forces concentrated their efforts in the south and east. In a regional troop surge that began in 2010, the United States deployed about 3,500 troops in northeastern Afghanistan and kept up operations there through 2011.

But the gains made during that period seem to have all but evaporated in the past few months.

"The fighting in Kunduz did not start this year," said the acting provincial governor of Kunduz, Ghulam Sakhi Baghlani. "But in past years, we had international forces helping the Afghan security forces."

Canada worries as extremism lures more abroad

By Marc Santora

THE NEW YORK TIMES

In January 2013, strewn amid the rubble and debris left after a terrorist attack on a gas plant in the Algerian desert were the remains of two men who had traveled far from home to wage what they viewed as a holy war.

The men had been friends in high school in Ontario, Canada, before they set off on a journey in 2011 that would take them to Morocco, Mauritania, a terrorist training camp in Mali and, ultimately, to their deaths in the sands of Algeria.

The forces that drove the men, Xris Katsiroubas and Ali Medlej, from their sedate life in Canada have only gathered momentum since then, both in Canada and in other Western nations.

In recent months, more than 100 Canadians have sought out conflicts in foreign lands from Somalia to Syria, according to a government

The threat was brought home for

Canadians first on Monday, when a man who was inspired by Islamic extremists based overseas used his car to run down and kill a soldier in Quebec. The man was later killed by the police.

On Wednesday, Ottawa, the country's capital, was locked down after a gunman shot and killed a soldier at a war memorial and then stormed the nation's Parliament building. The gunman, who himself was fatally shot, was identified by the authorities as a young man who had recently converted to Islam.

Prime Minister Stephen Harper, who spoke to the nation from an undisclosed location Wednesday evening, said that while the motive behind the attack that day was under investigation, the act had clearly been meant to terrorize. He said the attack was a "grim reminder" of the threats that the country faces.

Harper has been a staunch defender of the effort to destroy the extremist group called the Islamic State. On Oct. 8, Canadian lawmakers voted to authorize the nation's military to participate in the U.S.-led airstrikes in Iraq.

"If left unchecked, this terrorist organization will grow and grow quickly," Harper said when the measure passed. "They have already voiced their local and international terrorist intentions and identified Canada as a potential target."

Harper was referring to comments made by Abu Muhammad al-Adnani, an Islamic State spokesman, who sought to rally fighters to the group's cause and urged individual Muslims to attack civilians.

Adnani exhorted them to "kill a disbelieving American or European — especially the spiteful and filthy French — or an Australian, or a Canadian, or any other disbeliever from the disbelievers waging war, including the citizens of the countries that entered into a coalition against the Islamic State."

The threat of a "lone wolf" attack is a top concern for Western security agencies, including Canada!

South Korea tears down Christmas tower on border

By Choe Sang-hun

THE NEW YORK TIMES

SEOUL, South Korea — South Korean marines have dismantled a 43-year-old Christmas tower on the border with North Korea that the North had threatened to attack with artillery, officials here said Wednesday.

Built on a front-line hilltop northwest of Seoul in 1971, the 59-foot steel tower, tipped with a cross, used to be illuminated with cascades of light bulbs around Christmas during the Cold War years. Batteries of loudspeakers sent Christmas carols drifting across the snow-covered border into the North, where the totalitarian regime repressed religious freedom.

It was part of the psychological warfare the two Koreas continued to wage along the 155-mile border even after their three-year war ended with a truce in 1953. The sides carved their border hills with large slogans exhorting opposing troops to defect to the capitalist South "for freedom" or to the "people's paradise" of the communist North. They also used radio broadcasts and balloons carrying propaganda leaflets.

The rival Koreas discontinued most of the campaign after they agreed to stop slandering each other when they held a summit meeting in 2000.

The South Korean marines stopped lighting the Christmas tower in 2004. In 2010, when the North was accused of torpedoing a South Korean warship, the military let Christian groups light the tower again. It was around this time that conservative activists in the South also began sending propaganda balloons into the North. The tower was lighted one more time in 2012, when the North fired a long-range rocket two weeks before Christmas.

North Korea, which denies involvement in the sinking of the South Korean ship, has lashed out at the revival of the Christmas tower and leaflet balloons, calling them a breach of the 2000 summit agreement and threatening to fire on them.

On Oct. 10, the two armies exchanged machine-gun fire after the North tried to shoot down leaflet balloons that South Korean activists had released across the border. South Korean police officers and villagers near the border have since tried to stop the activists from launching balloons.

The Christmas tower was torn down last week, military officials confirmed Wednesday. They denied that its removal was related to South Korea's efforts to entice North Korea into high-level dialogue despite the recent shooting episode. They said the old tower had become so rusty that it was a safety hazard.

9 in Connecticut being watched for Ebola symptoms

Nine people in Connecticut who may have been exposed to the Ebola virus have been told to stay at home and are being monitored by local health authorities for symptoms, a spokesman for the State Public Health Department said Wednesday.

The people in question were not sick, the spokesman, William Gerrish, said, but were being watched under an order signed by Gov. Dannel P. Malloy on Oct. 7, declaring a public health emergency in the state.

They were not publicly identified because of privacy concerns, but officials said three were Yale University students and the others were from one family. At least some had traveled to West Africa.

Malloy's order enabled him to give the public health commissioner, Dr. Jewel Mullen, the power, "under conditions prescribed" by her, to order the isolation or quarantine of anyone she reasonably believed to have been exposed to Ebola, infected with it or at risk of transmitting it. Officials said that the quarantining of the nine people was voluntary, and that none had objected to it.

On Wednesday, federal health officials said that starting next week, travelers arriving in six states from Guinea, Liberia or Sierra Leone must have their temperatures taken and stay in touch with health officials daily for 21 days, the incubation period for Ebola. Connecticut is not one of those states.

"The governor has asked the department to act out of an abundance of caution, and that's exactly what they are doing," a spokesman for Malloy said.

—Anemona Hartocollis, The New York Times

Amazon loss exceeds forecasts, sending stock down

Amazon greatly lowered expectations last summer that it would make any money this year. But it did not lower them enough.

Amazon, the retailer and entertainment company, reported Thursday that it lost 95 cents a share in the third quarter, compared with a loss of 9 cents in 2013.

Analysts had expected a loss of 74 cents a share, according to Yahoo Finance.

Revenue, as always at the e-commerce giant, grew strongly, but a little less than expected. Sales during the quarter were \$20.58 billion. Analysts had expected \$20.84 billion.

Amazon shares fell 10 percent after hours on the news, which was reported after the close of regular trading. Over the past year, as worries about Amazon have picked up, the previously highflying stock has fallen about 15 percent.

The company was cautious in its outlook for the fourth quarter, saying that even in the best case, it would make less than it did last year. It also said its revenue in the quarter might grow as little as 7 percent — an amount that would be thrilling to any other big retailer but that is much less than Amazon's traditionally robust growth.

Before the earnings were released, analysts were generally enthusiastic. Cowen & Co. said it expected Amazon to lose "only" 57 cents a share. Colin Gillis of BGC Partners, usually somewhat skeptical of Amazon, issued an upbeat note that focused on the potential of the company to use its hardware for an advertising network.

"We are actually mildly positive on the potential of the current investment cycle as Amazon builds an ecosystem with its Kindle readers (success), tablets (mild success), App store (mild success), Fire TV (limited traction but a good product) and phone (failure, priced too high and limited distribution)," Gillis wrote. He noted that the retailer knew where its tens of millions of customers lived, what they liked and how they consumed.

Michael Pachter of Wedbush Securities was a mild dissenter, citing "a variety of customer experience enhancements" that will soak up potential profits. These enhancements include a streaming music service recently introduced by Amazon. It is free for Amazon Prime members.

 $-David\ Streit feld,\ The\ New\ York\ Times$

North Korea to bar foreign tourists over Ebola fears

SEOUL, South Korea — North Korea has announced it will not accept any foreign tourists beginning Friday because of fear of the Ebola virus, three agencies that take tourists to the isolated country said Thursday.

The news came as the country said it was stepping up inspections and quarantine measures at its airport, borders and ports to guard against the spread of the deadly virus, which has killed thousands of people in the latest outbreak.

"Three days ago, they said that anybody who's been to West Africa would have to provide a doctor's certificate stating that they don't have Ebola," said Gareth Johnson of Young Pioneer Tours, a travel operator based in China. "And then today, they just said no foreign tourists at all."

Johnson said that he got the notice from his North Korean partners and that one of his tour guides who was visiting North Korea with a group of foreign tourists had also confirmed it through the authorities there. Johnson said his company had to cancel its plan to take a group of 20 tourists to the North on Monday.

He said the ban on entry for foreign tourists affected all the borders with North Korea. Johnson called it a "complete blanket ban," regardless of where a foreign tourist came from.

David Thompson of Juche Travel Services in London said his company was contacting all customers who have booked North Korean tours in the coming months.

"At the moment, we do not know when the country will reopen its border to tourism," he said.

Nick Bonner at Koryo Tours, another China-based company that offers tours to North Korea, confirmed the ban but said it was still unclear whether North Korea was trying to ban all tourists or only those from regions that have had an Ebola outbreak.

Both Johnson and Bonner said they were not sure whether the ban would also affect foreign diplomats or businesspeople.

An official at the Beijing office of Air Koryo, the North Korean state airline, said no flights to the capital, Pyongyang, had been canceled, indicating that nontourist visitors would still be allowed to enter.

—Choe Sang-hun, The New York Times



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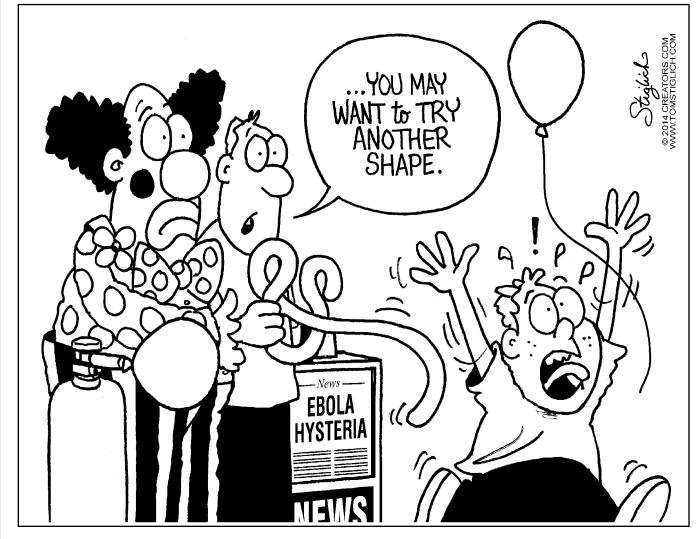
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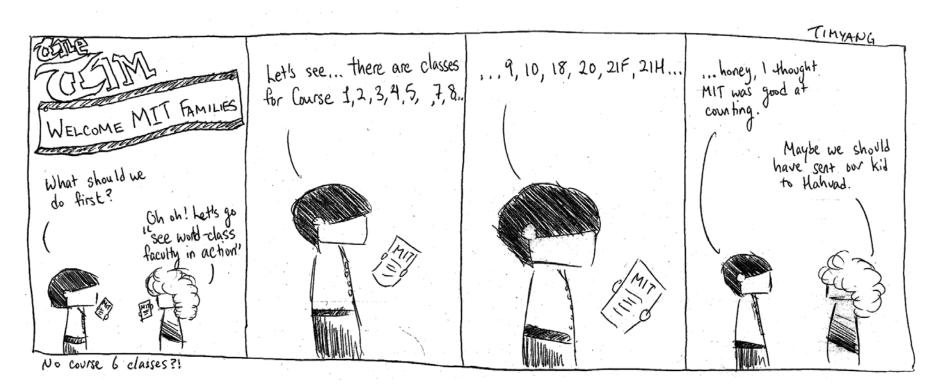
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BY ERIKA TRENT

PSEUDO-WISDOM OF THE DAY "There is no con in procrastination only a 'pro.' "

WWW.QEDCOMICS.COM



See the Light by Fred Piscop

Solution, page 11

ACROSS

- 1 Wall St. happenings
- 5 Little bug
- 9 What some checkers check
- 14 Made haste
- 15 Clinton attorney general
- 16 Domed structure
- 17 Reunion group
- 18 Certain truant's status
- 19 Picture postcard features
- 20 Compare favorably with 23 Trip part
- 24 Slice of history
- 25 Japanese sliding screen
- 29 Bows out
- 32 Creator of Kermit and Ernie
- 35 Phillips Petroleum merger partner
- 37 Apt. coolers
- 38 Software version
- 39 Not a priority
- 42 Vivid crayon type
- 43 N.Y. setting in Aug.
- 44 Baffler
- 45 Psychic ability
- 46 Mr. Clean alternative 48 Quite a spread
- 49 Ginnie __
- 50 Center starter
- 52 Loves unrequitedly
- 59 Trite, as a joke
- 61 Ne'er-do-wells
- 62 Knock flat 63 Unembellished

- 64 Source of eye color
- 65 Inclusive abbr.
- 66 Century 21 rival
- 67 Nod off
- 68 Controvert

DOWN

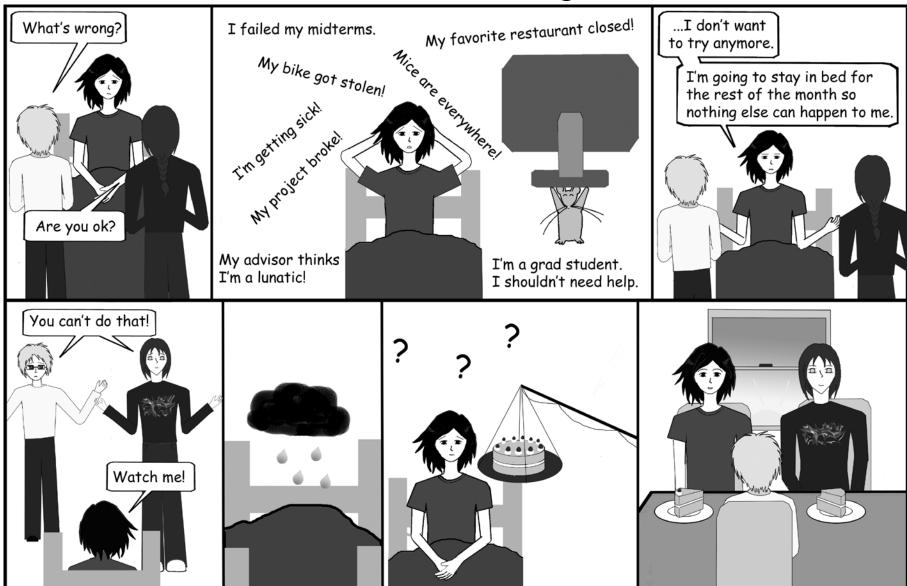
- 1 Cast wearer's annoyance
- 2 Royal pastime
- 3 Slanderous, by definition
- 4 Email command
- 5 Mealtime blessing
- 6 Grammy category 7 Unattributed: Abbr.
- 8 Divulged
- 9 Abes in wallets
- 10 Anxious feeling
- 11 Pinocchio goldfish
- 12 Roadside assistance
- 13 What the USCG may respond to
- 21 Rabbit chaser of fiction
- 22 Doesn't disturb
- 25 Muffin cousin
- 26 Makes keener
- 27 Numero uno 28 Name of 23 popes
- 30 Hobbyist's knife brand
- 31 "Ew-w-w!" 32 Block-stacking game
- 33 Bullet points
- 34 French Revolution radical
- 36 Compliant one
- 38 Fondue cheese

- 10 11 12 | 13 15 16 18 19 17 20 29 30 31 25 | 26 | 27 | 28 32 33 34 36 38 39 40 41 42 43 44 45 46 47 48 50 51 49 52 56 57 59 | 60 61 62 63 64 65 66 68 67
- 40 Craigslist postings
- 41 Ill-suited
- 46 Voice source
- 47 Musical with "Valjean's Confession"
- 49 Extreme enthusiasm
- 51 So last year
- 52 Jam-pack
- 53 Footnote abbr.
- 54 Franc's replacement

UNFUNFUNFUNFUNFUN

- 55 Initialed, perhaps
- 56 Appraise
- 57 Printer's primary color
- 58 Sanctified
- 59 Lifeguard's skill
- 60 World Cup cry

Somewhere on the Search for Meaning by Letitia Li



UPPERCUT by Steve Sullivan







Sudoku

Solution, page 11

	4				8		1	3
			1				8	
		3		5				
	3				5	8	4	7
1		8				9		5
4	5	9	3				2	
				4		2		
	6				9			
3	8		6				7	

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 11

30×		į	144×	3×
1–	12+		2	?
		4×	20×	
90×			2	20×
	6+	20+		
1	┪┈┈	6×	5	· · · · · · · · · · · · · · · · · · ·

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

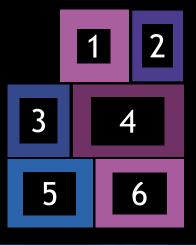
FRIDAY, OCTOBER 24, 2014 THE TECH 7

SK Late Night

Photography by Landon Carter

Sigma Kappa hosted Late Night on Sunday, October 19th at Kresge Auditorium as part of their philanthropy efforts. Various groups on campus competed in the talent show for various awards.

- Delta Kappa Epsilon. Francis Chen.
- Kevin Tian of Zeta Beta Tau.
- Nichole Clarke of Pi Beta Phi. They would go on to win the Judge's Choice Award.
- Zeta Psi. They would go on to win the top award.
- 6. Stephanie Zhang of Kappa Alpha Theta.

















65 YEARS

Short Programs

Est. 1949

Offers about 40 classes annually, mostly in summer, involving over 70 MIT faculty members and lecturers. Focus on intensive class work, lab exercises, and discussion of challenges faced by the global group of attendees from industry, government, and academe.

Advanced Study ProgramEst. 1964

Provides access to regular MIT classes for industry practitioners, without requiring entry into degree programs. A global pioneer in distance and online learning, with programs dating to the mid 1990s; currently serving about 75 Fellows annually.

Custom Programs

Est. 2003

Provides large-scale multi-year custom professional development programs for technical employees of BP, Novartis, Accenture, and other enterprises.

International ProgramsEst. 2009

Offers 2-5 day programs in locales from Chile to Singapore to Dubai, for professionals from a diverse range of backgrounds.

Online X Programs

Est. 2014

A major digital learning initiative to provide greater access to MIT expertise for technology-oriented professionals, and give MIT faculty greater exposure to global audiences and issues, particularly in emerging economies.

EDUCATION THAT PREPARES

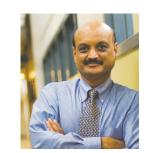
PEOPLE TO MAKE A DIFFERENCE

SCHOOL OF ENGINEERING DEAN IAN WAITZ:

innovative ways."

MIT LIFELONG LEARNING FOR TECHNOLOGY PROFESSIONALS

Since our launch by President Killian in 1949, MIT Professional Education has provided tens of thousands of practicing engineers, scientists, and managers from around the world with professional development programs led by MIT faculty.



Bhaskar Pant Photo by Stuart Darsch

As MIT's gateway to lifelong learning for 65 years, our mission has always been to create two-way lines of communication between the Institute and industry with mutual benefits. Participating professionals learn new skills and perspectives that make them more effective, and our participating faculty members get firsthand frontline insights that inform their research and teaching. Their comments on these pages are powerful testimony to the value they and the Institute receive.

We're proud of our heritage and of our success: this past summer we hosted over 1000 Short Program attendees from more than 60 countries. We're most excited, however, about our next frontier: digital learning and international programs, which are focused on global audiences and issues, particularly in emerging economies. There is great hunger for knowledge in these economies, and they're also places that our faculty and students are keen to understand better.

Our enduring success is due to the excellence of what MIT as a whole provides—this is why so many accomplished professionals from around the world want to expand their knowledge with us. We hope that you will share our pride as we celebrate the 65th anniversary of our Short Programs and the 50th anniversary of our Advanced Study Program, and continue pursuing the Institute Mission Statement's charge "to bring our common knowledge to bear on the world's great challenges".

Best Regards,

bpant@mit.edu

Bhaskar Pant
Executive Director

MIT Professional Education

"Short programs connect realworld problems with fundamental education. The industrial participants challenge us with the problems of their day jobs, and this carries over to and has profound impact on how we teach our regular MIT students."



"Part of MIT's mission is to provide exceptional

educational programs that prepare people

to make a difference in the world, whether

they're undergraduates, graduate students,

MIT Professional Education is carrying out

this work in so many avenues and in such

or practicing professionals. We're proud that

CHARLES COONEY
PROFESSOR OF
CHEMICAL
ENGINEERING

"MIT Professional Education is irreplaceable, because it connects me, on a deep and comprehensive level, with leaders and practitioners in industry. The intense weeks of classroom work and discussion allow me to focus my research and educational activities on high-impact targets that are relevant to urgent real-world needs."



MARKUS BUEHLER
DEPARTMENT HEAD AND PROFESSOR, CIVIL
AND ENVIRONMENTAL ENGINEERING

"It helps me as an MIT professor to work with practitioners an FBI agent who's in charge of New England's homeland security, someone in Disney's security operation. When I talk to my students, it's not all hearsay from books and articles, but from talking to people about their life responsibilities."



RICHARD LARSON

DIRECTOR, CENTER FOR ENGINEERING SYSTEMS
FUNDAMENTALS
PROFESSOR OF ENGINEERING SYSTEMS

"We've had a summer course on advanced drug delivery systems for 35 years that has trained thousands of people. It's wonderful to see that so many of these have become leaders."

ROBERT LANGER

DAVID H. KOCH INSTITUTE PROFESSOR

DEPARTMENT OF CHEMICAL ENGINEERING





MORE HISTORY, AND MORE ABOUT OUR FUTURE AT professionaleducation.mit.edu

MIT PRESIDENT RAFAEL REIF MIT PROFESSIONAL EDUCATION: A STRATEGIC ASSET FOR THE ENTIRE INSTITUTE



The programs that make up MIT Professional Education have benefitted tens of thousands of engineers, scientists, and managers worldwide, and I know from personal experience* that teaching in these programs is richly rewarding for our faculty. And for the Institute as whole, the dividends earned over the past 65 years have been tremendous—we are better connected to the front lines of technology-driven enterprise, and better able to fulfill our mission of disseminating knowledge and effecting positive change. Going forward, the experience and skill of the MIT Professional Education team, and their collaborating faculty members, provide a robust foundation for our work in lifelong learning, and a strategic asset for the entire Institute.

*President Reif was the instructor for the 1997 short program Multilevel Interconnect Process Technologies for Microelectronic Fabrication

"Our Nuclear Plant Safety course has helped educate hundreds of professionals from all over the world since 1966. Its success is a testament to the increasing importance of MIT's professional courses, as industries seek to maximize the benefits of fast-changing innovative technologies while also thinking about their impact on society."



MUJID KAZIMI
DIRECTOR, CENTER FOR ADVANCED NUCLEAR ENERGY SYSTEMS
PROFESSOR OF NUCLEAR ENGINEERING
PROFESSOR OF MECHANICAL ENGINEERING

"Creating the first online Professional Education course was fantastic—a very collaborative, friendly, visionary, and zestful experience. The MIT-CSAIL faculty enjoyed creating content, the students found great value, and everybody on the BigDataX team looks forward to future projects and collaborations."

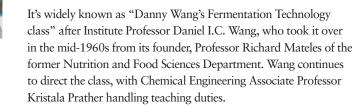


DANIELA RUS
DIRECTOR, MIT-CSAIL
PROFESSOR OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE



FIFTY YEARS OF FERMENT

Fermentation Technology, one of the longest-running courses in the Short Programs portfolio, was first offered in 1962 and now boasts over 5,000 alums worldwide. While the name has remained constant, the content has constantly evolved to include the latest biological and biochemical advances.



In 1976, the course was offered for the first time abroad (in Zurich, Switzerland), and in 1978, for the first time at an industry site (Eli Lilly, Indianapolis, Indiana). Since then it has been taught worldwide, and its content adapted into a 1979 textbook, *Fermentation and Enzyme Technology* (Wiley).

The only years the course has not been offered at MIT were 1964 and 1966. "Those two years off led to our choosing this year, 2014, to celebrate the 50th anniversary of Fermentation Technology," says Prather. "We look forward to what the next 50 years bring!"

"Our product families and platforms course, entering its eighth year, has created a global community of professionals who leverage the curriculum's concepts in strategy, platform architecture, and design for commonality. Through our social media, alums and a growing group of engaged companies are connecting, sharing insights, and creating value for their firms and customers."



OLIVIER DEWECK

PROFESSOR OF AERONAUTICS AND ASTRONAUTICS AND ENGINEERING SYSTEMS

"I teach innovation, and innovation is a two-way street. I have benefited a great deal from my interactions with the participants in my professional course — as the innovation landscape changes, I have found my class to be as much a venue for an exchange of ideas as a traditional class."



SANJAY SARMA
MIT DIRECTOR OF DIGITAL LEARNING
PROFESSOR OF MECHANICAL ENGINEERING

"Our Lean Enterprise course has attracted academics from all over the world, who take the knowledge back to their institutions; many of those people have become colleagues. MIT Professional Education has helped us fulfill our original mission of getting the course material into academic programs."



FORD PROFESSOR OF ENGINEERING EMERITUS
PROFESSOR EMERITUS OF AERONAUTICS AND ASTRONAUTICS



PRESIDENTIAL PERSPECTIVES

MIT PRESIDENT 1948–1959

Killian established the Office of the Summer Session (later known as the Professional Institute and now as Short Programs) in 1949 "to utilize the facilities of the Institute during the summer months to the advantage of industrial, technical, and scientific people who cannot participate in our year-round academic program, and to provide parts of our regular academic program for members of our student body who wish to remain for study in Cambridge during the summer."

JULIUS R. STRATTON
MIT PRESIDENT 1959–1966

Stratton oversaw the 1963 establishment of the Center for Advanced Engineering Study (now the Advanced Study Program). "Designed to provide a substantial new curriculum of postgraduate work for both practicing engineers and for professors of engineering, the Center... promises to give form to an altogether new component of engineering education."

CHARLES M. VEST MIT PRESIDENT 1990-2004

MIT's Summer Session (now Short Programs) was launched simultaneously with the research-oriented Industrial Liaison Program. In his 50th anniversary talk in 1999, Vest commented, "Both proposals were deeply rooted in the basic values of MIT, and both were designed to help faculty into greater direct contact with senior leaders and decision-makers in industry and government....There can be little doubt of the enduring value [the Summer Session] has had for both the Institute and the larger community we serve."



IN YOUR COMMUNITY

Young, ambitious, and undocumented at MIT

Discussing the complications of immigration and education

By Kali Xu and Austin Hess

EDITORS

Jose A. Gomez '17 recalled sitting down his junior year of high school to contemplate his post-graduation plans. Like many now-undergraduates at the Institute, he had dreamed of applying to MIT for years but felt his chances of actually being able to attend were slim.

For Gomez, however, the largest obstacle he foresaw to getting to MIT had nothing to do with SAT scores, grades, or recommendations — it was actually literally, physically getting to the Institute.

Gomez had lived in McAllen, Texas since his parents immigrated to the U.S. from northern Mexico when he was five. He grew up knowing that he was undocumented, as were many other residents of his border hometown.

But Gomez was trapped indefinitely in the state's southern tip. A series of U.S. Border Patrol interior checkpoints — permanent traffic stops throughout the southern parts of Texas effectively serving as a second layer of checks to catch undocumented immigrants near border towns — meant that any trip beyond a small region could result in arrest and deportation.

"You're pretty much living in this bubble of where you can and cannot go... You're sort of imprisoned within a certain part of the country," Gomez said. His childhood was spatially confined by the checkpoints — the furthest he traveled during that time was a school field trip to San Antonio.

Gomez had always expected applying to colleges would be difficult, but realized that without the ability to leave his immediate area, let alone a Social Security number, his goals were out of reach. "I was like, 'What am I going to do? I know where I want to go. I know what I can do... [but] I'm stuck.' It was one of those hard times when it was just completely out of my control — what I could and could not do — and that's a horrible place to put any person."

"I fall in this gray area and there's no one I can go to [for help]."

Everything changed for Gomez when the Obama administration launched the Deferred Action for Childhood Arrivals (DACA) program in the summer of 2012, just before he started his senior year of high school. Though not a law, the administration policy effectively protects accepted undocumented young people from deportation proceedings for two years and allows them to apply for work authorization and Social Security numbers.

No longer having to worry about deportation, which had been a constant fear throughout his childhood, Gomez said that DACA "pretty much... made the bubble go away." At least now he could travel beyond southern Texas without fearing removal from the U.S.

Gomez considered entering the public university system in Texas (one of the few states which allows undocumented students to receive state financial aid and pay in-state tuition), where his status as a high school valedictorian would have also afforded him a scholarship.

But he also applied to MIT, his dream school. He wrote about his challenges being undocumented in one of his admissions essays and, he said, marked the "international" bubble for lack of an accurate descriptor on the residential status question. Though he still could not apply for federal financial aid through the FAFSA, he was able to apply for aid at MIT through the CSS PROFILE and his parents' tax returns.

He was accepted, and need-based scholarships from MIT made it more affordable for him to attend than a state school and made his decision to attend the Institute an easy one.

Fighting for change

When Gomez started college, he met other undocumented students at MIT, of whom he said there are "roughly ten." One of those students, Sofia Campos, is a graduate student in the Department of Urban Studies and Planning who has been at the forefront of the national immigration reform movement since her undergraduate years.



CHRISTOPHER A. MAYNOR—THE TECH

Jose A. Gomez '17 is a Course 16 student who grew up in Texas, undocumented. He is part of DreaMIT, a group for undocumented students at MIT.

Campos had fought for DACA throughout her time at UCLA as a leader of United We Dream, a national youth-led network focused on immigration policy reform and providing equal access to higher education.

Campos, unlike Gomez, did not grow up knowing that she was undocumented. Her family moved to California from Lima, Peru when she was six years old. Shining Path terrorism had left Peru's economy in turmoil, and her father, a civil engineer, had lost his software business. Her parents knew that they would not be able to keep Campos and her two younger siblings in a good educational environment and therefore decided to take their chances and move to the U.S., settling in Highland Park in Los Angeles.

When she was 17 and in her senior year of high school, Campos tried to apply for federal financial aid through FAFSA. She asked her mom if she had a Social Security number, and her mom told her she did not — her family had overstayed their tourist visas, and she was undocumented. "I didn't really know what that meant, but the look on her face told me that it was something bad," Campos said. Her parents had tried to protect her and her younger siblings from the social stigma of being undocumented, but her status suddenly seemed likely to stifle her educational dreams.

Her counselor suggested that she would only be able to afford to go to community college, but her family was determined to send her to UCLA. After her parents used all their savings to pay for her first term, Campos alternated quarters studying and working to save up money for tuition. She took two-hour bus rides from Highland Park to UCLA every day during college and applied to hundreds of scholarships over the years (though many were off-limits to undocumented students). During this time, she found support from groups on campus like IDEAS (Improving Dreams, Equality, Access, and Success).

Throughout her college years, Campos was heavily involved in the Right to Dream campaign that undocumented youth across the country organized for Deferred Action for Childhood Arrivals. They occupied Obama's headquarters, held civil disobedience actions in Los Angeles and elsewhere, and communicated with both the Democratic and Republican parties.

On June 15, 2012, her UCLA graduation day, DACA was finally passed. Soon after, Campos received her first ID and driver's license. When she was accepted to MIT for graduate school, her new Social Security number made it much simpler to work out logistics. In the fall of 2013, she began her DUSP studies with a work authorization that allows her to be paid for her research assistantship.

Looking to the future

Campos and Gomez recognize that DACA and MIT have afforded them many opportunities that just years before would have seemed out of reach but say there are

still major challenges facing them and other undocumented students and also wish to call attention to other injustices caused by a lack of immigration reform. Campos, Gomez, and other undocumented students are part of DreaMIT, a new student group focused on these goals.

Undocumented students face many unique hardships during college. Getting internships and jobs can be much tougher than for others — most companies require citizenship, permanent residency, or employment authorization. One goal of DreaMIT is to find an advisor at MIT who can help address difficult questions about employment and documentation. "I fall in this gray area and there's no one I can go to to ask if this is something I can or cannot do," Gomez said.

Although Gomez has spent virtually his entire life in the U.S., without citizenship or permanent residency he cannot work on the projects he is most interested in at companies like Boeing, Lockheed Martin, and SpaceX. As a Course 16 student, many of the places he would like to work have strict documentation requirements.

Though DACA is incredibly helpful to undocumented students, being accepted is not guaranteed or particularly simple, and those receiving the benefits must reapply every two years. DACA requests and renewals cost \$465 each. DreaMIT aims to help guide students applying for DACA grants or renewals, without which undocumented students would not be able to travel or return home without risking deportation.

"People are more willing to listen to an MIT student."

Gomez also worries about what will happen with DACA when Obama leaves office, since DACA is a temporary measure that only stands as long as the president is in office. Obama's term ends before Gomez expects to graduate in 2017.

Additionally, since DACA only applies to those under the age of 30, older undocumented immigrants continue to live under precarious legal circumstances. Expansion of DACA has been hotly debated in Congress, but has yet to materialize.

Gomez said, "We want action, because every day that it doesn't happen, [1,100] people are being deported. You take a thousand people and put a halt to their lives, and say, 'Nope, it ends right now — you gotta start all over."

The choice to move to the US involves a trade-off that parents like Gomez's often face for the sake of their children. Gomez said, "The region where we lived in northern Mexico is like drug cartel central, so this gave me better odds to live and be educated," but also said that as an undocumented immigrant in the U.S., "You do the job that you have the opportunity to do, but

you can't do the job that you want to do. It's a very difficult life for anybody who's older and undocumented." His father works as a manager at a car repair business, and like many older immigrants who have lived and worked in the U.S. for years, continues to struggle economically despite working nonston

Referring to undocumented agricultural workers, who make up a large portion of those in labor-intensive, low-wage jobs, Gomez added, "We depend on undocumented people, but we don't want to grant them citizenship."

In college, Gomez has become increasingly involved in advocacy for both undocumented students and the larger immigration reform movement.

Compared to while he lived in Texas, Gomez says that he feels safer and more empowered talking about his undocumented status at MIT. "People are more willing to listen to an MIT student who's undocumented — which shouldn't be the case — but I feel like I have a greater voice because I'm here, and because of that, I should definitely be speaking out more."

Gomez has shared his undocumented status with friends in his living group in New House, as well as some members of the MIT administration, but said it is not something he has spoken about widely before now. "The fact that people see me as a regular MIT student should continue, because that is exactly what I am. Being undocumented does not make me any different. There's just more bars on what I can do and more challenges I have to go through."

In fact, he said, he thinks most MIT students who aren't from an area with large undocumented populations may not even have a good understanding of what it means to be undocumented.

Campos has been very open about her status as an undocumented student since she first found out. She said, "I think for the most part, people just have never encountered somebody that's undocumented, knowing so, because it can be an invisible part of our identity. If we choose not to say it, then you don't have to acknowledge it."

Daily life as a student at MIT is pretty typical for Gomez — Unified, problem sets, hanging out with friends, intramurals. Though the uncertainty of his future given his undocumented status is perpetually in the back of his mind, Gomez is determined to pursue his educational and career goals while remaining involved in advocacy.

Both Gomez and Campos will be speaking about their paths to MIT at a sold-out screening of the documentary *Underwater Dreams* (featuring a group of undocumented students as well as several MIT alumni and Edgerton Center staff) tonight, along with Professor Junot Díaz and director Mary Mazzio. Raising awareness about the challenges of undocumented students and their families is just one part of immigration reform, and Gomez and Campos are invested in working toward change with DreaMIT and the wider MIT community.

THE TECH 11 FRIDAY, OCTOBER 24, 2014

Ebola case raises problems for NYC

Patient claims to have made trip around city while symptomatic

By Anemona Hartocollis

New York City's first confirmed case of Ebola has raised com-

plicated logistical issues of how to trace the possible contacts of an infected patient in a city of more than 8 million people with a sprawling mass transit system and a large population of workers who commute every day from surrounding suburbs and states.

By the time the patient, Dr. Craig Spencer, an emergency doctor who had recently returned from Guinea, arrived at Bellevue Hospital Center in Manhattan by ambulance Thursday, he was seriously ill, with a 103-degree temperature and the beginnings of diarrhea, officials said.

Spencer complicated the tracing process when he told health officials that just the night before, he had gone bowling in Brooklyn, making the long trip there from his home in Upper Manhattan by subway and then returning in a car hired via Uber.

It was soon clear that health authorities were worried, as word emerged that they were isolating not just Spencer's fiancée but also two friends who had been with him in the two days before he arrived at the hospital.

City officials were making plans to provide case managers for every family or person who might need to be quarantined.

New York has some advantage in that it may be able to learn from what happened in Dallas, where two nurses became infected with Ebola after treating the first Ebola patient in the United States, Thomas Eric Duncan, who died of the virus on Oct. 8.

Israel Miranda, president of the union of uniformed emergency medical technicians and paramedics, said Thursday that he was satisfied with the way Spencer's transport to the hospital had been

Two ambulances responded, and two paramedics fully encased in protective suits brought Spencer out of his apartment.

When the paramedics left the hospital, their suits were sprayed with disinfectant and cut off from behind by a special unit, Miranda

said. The ambulance was also decontaminated.

He said the paramedics would have their temperatures taken twice a day for 21 days.

Soothing the fears of those who may have been at The Gutter, the Brooklyn bowling alley Spencer visited, or who might have ridden in a subway car with him could well be more challenging.

Spencer has been isolated in a seventh-floor ward at Bellevue, the city's main public hospital, that was specially designed to treat highly infectious tuberculosis patients. The unit is locked and guarded, with rooms where health care workers can be decontaminated and cameras can monitor



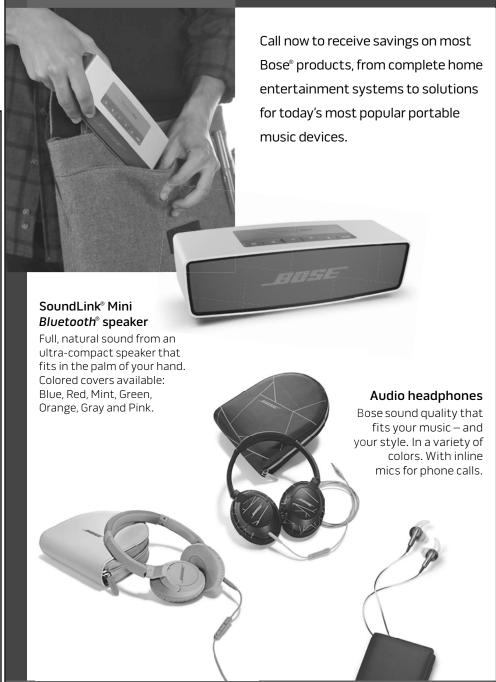
Segall values Institute's culture

She sees 'openness of continued learning' on campus

Segall, from Page 1

Ombuds Office is also independent of any other organization on campus, and is therefore able to guide visitors through problems impartially. The Ombuds report to President L. Rafael Reif, and may reach out to certain individuals or groups to allow them to resolve conflicts without a public audience.

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BARK NASAL TRAY
OPAL UNTIL REIN
GENESTONY YALE

Solution to Sudoku from page 6

5 4 6 2 9 8 7 1 3 9 2 7 1 3 6 5 8 4 8 1 3 7 5 4 6 9 2 3 2 9 1 5 8 4 7 1 7 8 4 6 2 9 3 5 4 5 9 3 8 7 1 2 6 1 5 4 3 2 6 8 2 6 4 8 7 9 3 5 1 3 8 5 6 2 1 4 7 9

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12 THE TECH FRIDAY, OCTOBER 24, 2014



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Residents hope to maintain culture

Construction to affect student life with sporadic shutoff of utilities

Sidney-Pacific, from Page 1

are you forced out when someone invades your home?" one resident asked Humphreys.

Students may also be placed in other dormitories in the graduate housing system or find off-campus

"This past year we were at capacity both for single and married graduate housing. We did have availability in Tang this past year, but whether that will occur this coming year, I honestly can't tell you," said Humphreys, when asked where the 370 students will relocate.

The housing office will give Sid-Pac residents who decide to stay the option to cancel their housing without penalty at any time. If these students choose to move off-campus at any point after choosing to stay in the dorm, their continuing status - the ability to remain in SidPac — will still be maintained. Students who move out before the renovations begin will forfeit their continuing status.

Those students who choose to take the two-bedroom quad option will also have some of their rent reduced, though the specific details of this have not been determined. Humphreys said that no other financial assistance will be given to students planning to move off-campus.

For those residents who are not asked to move, the construction may still affect day-to-day life at SidPac. "There will be single-digit, small short term shutdowns... electricity, chilled water, and something like that. We'll schedule those at the best time for building and with plenty of notice," stated Matthew Kearns in the town hall.

Other issues associated with the renovations have not been fully determined, such as the hours when the construction will take place, when students will have to enter into an inter-building lottery if they choose to switch dorms, and what will happen to the current residents' seniority points if they choose to move off campus. "We wanted to

work with the student leadership to answer those particular questions," said Humphreys in a response to a question regarding accumulating housing points after leaving SidPac and rejoining.

More important to residents, however, was the prospect of losing the community in SidPac.

"If there are no new residents coming in during construction year, then you will have no new people that will be able to make that community," claimed another resident during the town hall.

"SPEC and the student government's biggest concern going forward is to keep the community together during the construction," said Jenny Wang G, President of the Sidney-Pacific Executive Council, in an email to The Tech. "The culture in SP is very special on campus so we want to preserve it for the future."

The planned renovations at Sid-Pac most closely resemble last year's Bexley shutdown. "The key thing that we learned during Bexley... is constantly communicating with the group of leaders," said Humphreys. "I want to make sure we keep rumors down to a minimum... students are already stressed enough about having a project going on."

Wang reiterated the communication effort from the student government perspective. She said, There will be a continuing conversation between the administration, the student leadership, and the residents over the next weeks and months as the planning progresses."

In the interview, Humphreys emphasized maintaining communication with the students affected throughout the process. "We will have as many meetings as we need to have with the students to get them to a place where we know that they're comfortable personally, but also that the community feels like they're sustainable," he said.

A frequently asked questions handout, given during the first town hall meeting, also requested students send their questions to sidpachvac@imit.edu.



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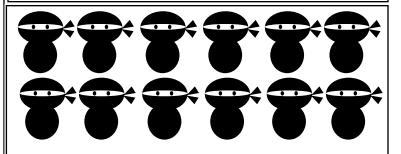
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FRIDAY, OCTOBER 24, 2014 **THE TECH 13**

Institute Double Take



By Ho Yin Au

STAFF PHOTOGRAPHER

Being out and about during magic hour with a camera — the time right before sunrise and after sunset — is a great way to capture beautiful photos. The light is soft and tinged with warm colors. In the evening, the orange and yellow city lights illuminate

the skyline, providing a nice contrast to the blue and purple skies. Everything glows. At 6:30 p.m. on October 8th, 2013, the sun had already set, and the sailboats were returning to dock in the fast waning rays of twilight. It was quite a colorful and serene scene, punctuated by the waxing crescent moon. A high aperture and ISO was used to keep as much of the scene in focus as possible. Even

though the original was in color, a black and white version was created for a business that wanted a framed 30" by 30" print in their office. The original image was in 3:2, so a simple square crop wouldn't work without cropping some of the sailboats. I used the content-aware resizing tool in Photoshop to keep the essence of the original image in the newaspectratio, with the business's approval.

Aperture: f/8 **Exposure Time:** 1/10 sec. Sensitivity: ISO 3200 **Effective Focal Length:** 45 mm



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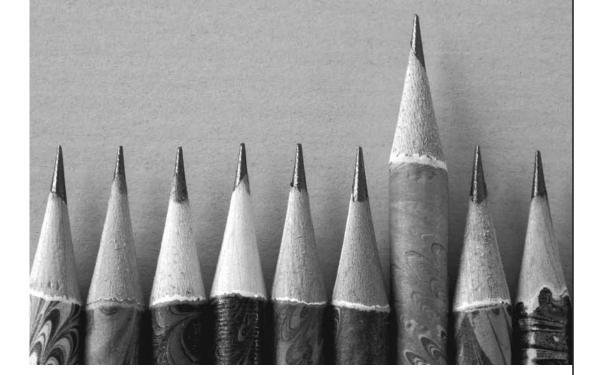
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FRIDAY, OCTOBER 24, 2014 **THE TECH 15**

Men's soccer defeats Framingham State 2-1

Engineers improve their record to 6-4-4 on the season with non-conference win

By Matt Noonan

For the second straight contest, Sean D. Bingham '16 and Joshua M. Wilson '18 each found the back of the net as the

MIT men's soccer team defeated Framingham State 2-1, in non-conference action on Tuesday evening at Maple Street Field. With the win, Tech improves to 6-4-4 overall, while the

Rams fall to 4-9-2.

Tech commenced the contest with five consecutive shots, including two attempts directed toward Framingham State goalkeeper Jacob Nichols, which were turned away. Cory Cardeiro capitalized on the game's next shot — the Rams' initial shot of the match at 30:19, which provided the hosts with their only advantage of the evening. Cardeiro deposited his sixth goal of the season after he dodged past MIT's backline on a bro-

MIT evened the score roughly a minute later when Bingham converted on his second penalty kick of the season at

31:42 for his 11th goal. Wilson capitalized on the Cardinal and Gray's next attempt at 36:39 by firing home a feed from Bingham for his ninth goal, which provided the visitors with a 2-1 lead at the break.

Framingham State's defense began the second half blocking back-to-back attempts by Austin E. Freel '16 and Wilson before the Rams' offense countered with consecutive shots by Cardeiro and Suhairu Kato that were blocked by MIT's backline. Cannon also came up with a big stop too as he denied a penalty shot by Bryan DaSilva at 52:14.

MIT outshot Framingham State, 17-11, including 10-3 in the opening session. Nichols finished the match with seven saves, while Cannon registered four stops. Tech also held an advantage in corners, 10-0, with six occurring during the second stanza. Wilson, who led the Engineers and all players in shots, matched a career and season-best with five shots.

Both teams return to action on Saturday, October 25 as MIT hosts Springfield College at 1 p.m., while Framingham State welcomes Massachusetts Maritime Academy for a 12 p.m. start.



Fernando A. Yordan '17 spars against a competitor during the 2014 MIT Taekwondo Tournament on Sunday, Oct.19. The tournament, featuring 424 competitors from 24 schools, saw MIT earn second place in ECTC Division I.

UPCOMING HOME EVENTS

Saturday, October 25

Sailing vs. Oberg Trophy

Women's Swimming and Diving vs. Charlie Batterman Relays Men's Swimming and Diving vs. Charlie Batterman Relays Men's Soccer vs. Springfield College

Football vs. Western New England University Men's Water Polo vs. Connecticut College

9:30 a.m., Charles River 12 p.m., Zesiger Center Pool 12 p.m., Zesiger Center Pool 1 p.m., Steinbrenner Stadium 5 p.m., Steinbrenner Stadium 7 p.m., Zesiger Center Pool

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Field hockey falls to Wellesley College, 4-0

MIT drops to 10–2 overall and 5–1 in conference play after the defeat

By Mindy Brauer

A strong second half performance that featured three goals propelled nationally-ranked No. 10 Wellesley

College to a 4-0 victory over MIT in a NEWMAC field hockey game on Tuesday night. Natalie Gruet produced two goals for the Blue, which improved to 14-2 on the year and 7-0

in conference play. The Engineers, meanwhile, saw their four-game winning streak come to an end as their ledger dipped to 10-2 overall and 5-1 in the NEWMAC.

The early stages were a back-andforth affair until MIT strung together three penalty corners and four shots in a six-minute span. Wellesley responded with a trio of penalty corners and two shots on goal before Gruet found the back of the net with 10:48 left in the half. After goalie Paige V. Kennedy '16 kicked away a shot by Anissa Shridhar, Gruet corralled the loose ball along the far endline and then curled back into the arc where she sent a strike to the near post. The Engineers withstood another surge by the visitors before both sides generated a frantic final minute of action but it did not result in a goal.

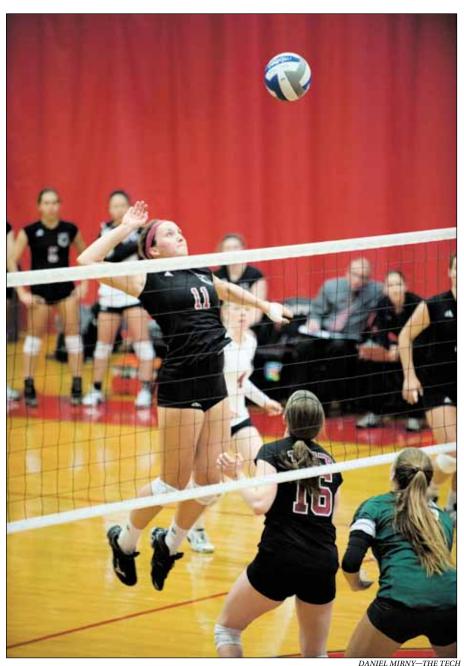
Wellesley wasted little time in increasing its cushion as it went up 2-0 after 4:12 elapsed in the second half. On a penalty corner, Courtney Peterson inserted the ball and it eventually made its way to Meghan Peterson whose shot was turned away by netminder Evie Kyritsis. Courtney Peterson then quickly redirected the carom for her 11th marker of the season.

The Blue continued to control the action, resulting in Gruet's second strike of the night. With the ball at the top of the arc, Emmy Hamilton sent it through MIT's defense to the far post where Gruet tipped it in with 26:30 on the clock. Stymied for most of the frame, the Engineers nearly ended the shutout on a quick hit by junior Morgan E. Gulliver '16 with eight minutes to go but Lucy Hurlock denied the attempt. Wellesley replied by capping the scoring 90 seconds later when Sridhar collected the rebound of Courtney Peterson's saved shot and slipped it past Kyritsis.

Wellesley wasted little time increasing its cushion as it went up 2-0 after 4:12 elapsed in the half.

In net, Kennedy tallied seven saves in the first half while Kyritsis closed the game with eight stops. Hurlock, meanwhile, stopped three shots in her second shutout of the season, including a jumping swipe with eight seconds to

Both squads continue NEWMAC play on the road on Saturday, Oct. 25. MIT will travel to No. 17 Mount Holyoke College while Wellesley will visit Clark University.



Allison A. Davanzo '18 spikes the ball during Tuesday's game against Babson College. MIT won the NEWMAC game 3-1, continuing the winning streak and advancing the team to a 23-2 overall score.

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